



Navy Region Mid-Atlantic Drinking Water Website:
<http://1usa.gov/1QbwtwN>
 EPA Emerging Contaminants Fact Sheet:
<http://1usa.gov/1QbweBl>

? WHY IS THE NAVY SAMPLING FOR PFCS?

Background

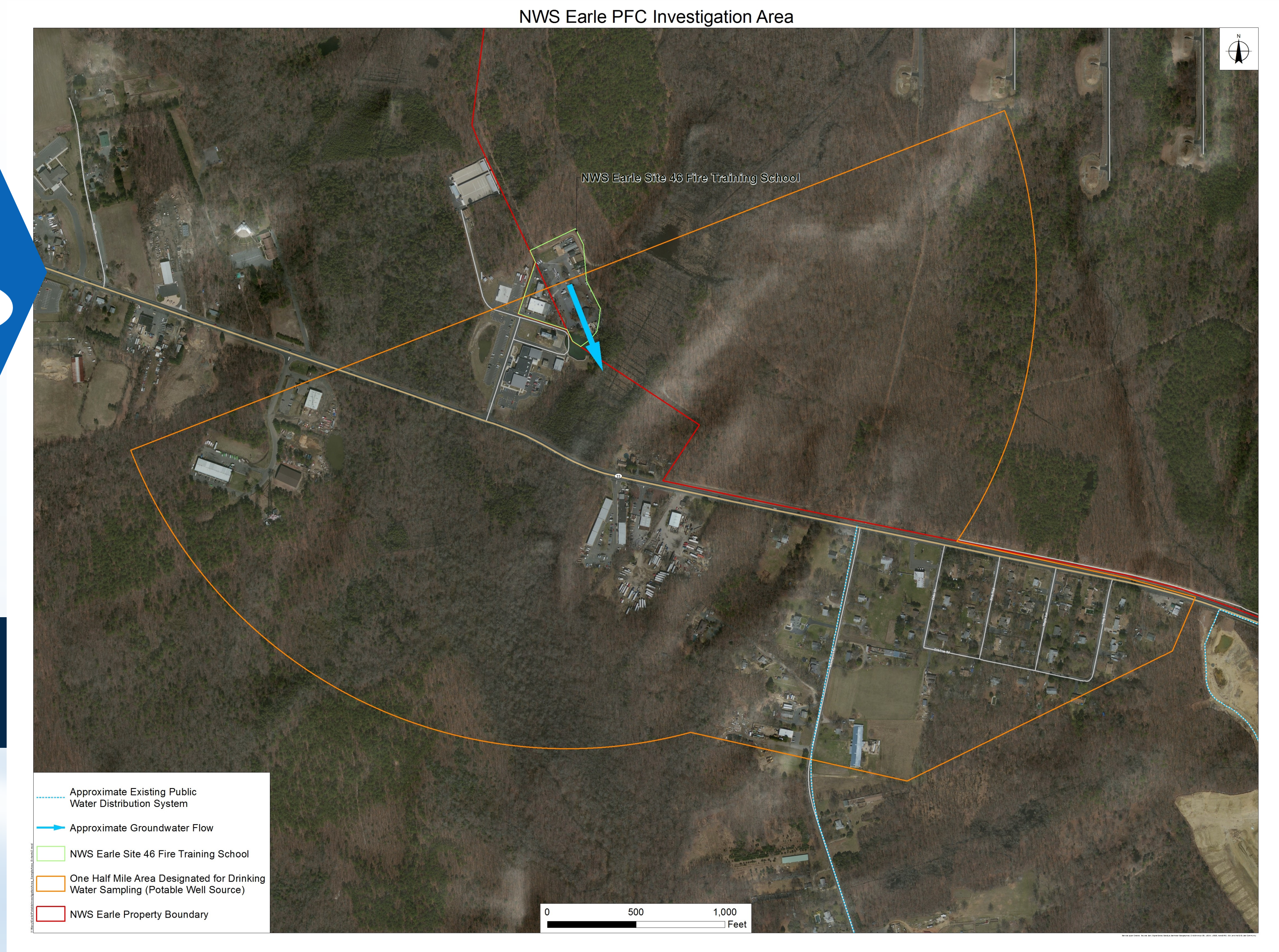
- ▶ Perfluorinated Compounds (PFCs) are unregulated contaminants that are being sampled for the first time.
- ▶ U.S. EPA uses the UCMR program to collect data for contaminants suspected to be present in drinking water.
- ▶ U.S. EPA is working to improve its understanding of the prevalence and toxicity of PFCs to determine if safe drinking water regulatory limits are needed.
- ▶ Safe Drinking Water Act (SDWA) does not include regulatory limits for PFCs.
- ▶ U.S. EPA issued a Health Advisory Level for lifetime exposure for PFOS and PFOA in 2016.

U.S. EPA HEALTH ADVISORY LEVEL FOR THE COMBINED CONCENTRATIONS OF PFOS AND PFOA IS 70 ng/L OR 70 PARTS PER TRILLION.

- ▶ NJDEP promulgated an Interim Ground Water Quality Standard for PFNA in November 2015 and a preliminary drinking water guidance value for PFOA based on a lifetime exposure in 2016.

NJDEP LEVEL FOR PFNA IS 10 ng/L OR 10 PARTS PER TRILLION. NJDEP PRELIMINARY VALUE FOR PFOA IS 40 ng/L OR 40 PARTS PER TRILLION.

SAMPLING AREA



TIMELINE



1. SEPTEMBER 2015—NEW NAVY POLICY. A new Navy PFC policy required drinking water sampling for sites with the potential to have PFCs. Fire-fighting foam that potentially contained PFCs was historically used at some Navy installations.
2. DECEMBER 2015—ON-BASE SAMPLING. The Navy sampled **NAVAL WEAPONS STATION (NWS) EARLE FIRE TRAINING CENTER** on-base groundwater and drinking water.
3. JANUARY/MARCH 2016—ON-BASE SAMPLING RESULTS
 - ▶ **Drinking water sample results** showed no PFCs above Health Based Levels.
 - ▶ **Groundwater sample results** indicated PFOS above U.S. EPA Health Advisory levels and PFNA above NJDEP Interim Ground Water Quality Standard.
4. FEBRUARY 18, 2016—FIRST PUBLIC INFORMATION MEETING. Navy requested to sample off-base private drinking water within designated sampling area.
5. FEBRUARY 19-26, 2016—OFF-BASE SAMPLING. Navy sampled for PFCs in off-base private drinking water at 28 properties whose property owner requested sampling.
6. MARCH 11, 2016—PRELIMINARY ACTIONS. Based on preliminary results, the Navy provided bottled water to one residence and the Navy committed to providing public potable water supply connection.
7. APRIL 6, 2016—OFF-BASE RESULTS NOTIFICATION. Validated results provided to all off-base property owners that requested sampling.
8. APRIL 14, 2016—SECOND PUBLIC INFORMATION MEETING. Shared sampling results summary and answered questions.
9. MAY 2016—U.S. EPA issued new Health Advisory Level (HALs) for PFOS and PFOA.
10. MAY 2016—Based on new HALs, an additional unoccupied property was identified as requiring corrective action and the Navy committed to providing a public potable supply connection.

Parameter	Maximum Concentration Detected in NWS Earle Groundwater	HBL	Exceeds HBL?	Unit
Perfluorooctane Sulfonic Acid (PFOS)	2,800	70	Yes	ppt
Perfluorooctanoic Acid (PFOA)	94			ppt
Perfluorononanoic Acid (PFNA)	15	10	Yes	ppt

ppt = part per trillion HBL = Health Based Level
 For PFOS and PFOA, health based level is US EPA Health Advisory Level.
 For PFNA, health based level is NJDEP Interim Ground Water Quality Standard